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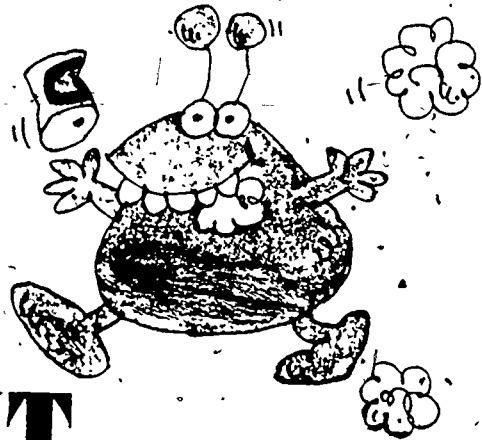
IDENTIFIERS *4 H Clubs; *Litter Education Programs; Ohio

ABSTRACT

Seven activity guides, evaluation sheet, and club scoresheet have been prepared for Ohio 4-H clubs' litter education program. Topics of the seven activity guides include: (1) general guidelines and types of activities; (2) little known facts about waste/litter; (3) guidelines for a walking tour; (4) fact sheet (questionnaire) related to garbage; (5) roadside litter survey; (6) roadside litter clean-up campaign; and (7) how to organize a paper drive. The scoresheet is in checklist format and includes types of activities (with point values) and spaces to indicate total club membership, number of members participating in a given activity, and total point values. The evaluation sheet lists eight items to be answered and returned to the developers of this pilot program. (JN)

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LITTER CONTROL ACHIEVEMENT



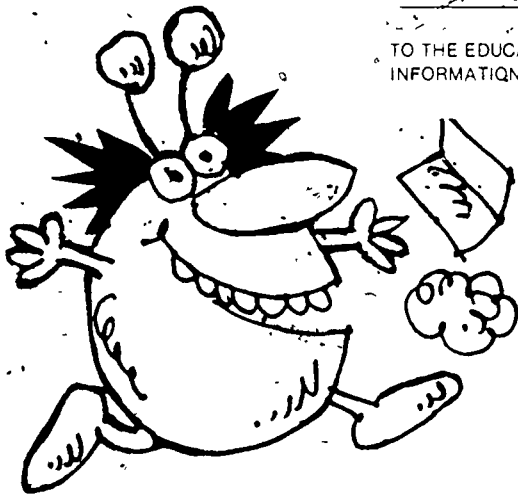
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OHIO 4-H CLUB SCORE SHEET

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CLUB NAME _____

COUNTY _____



Cooperative Extension Service
The Ohio State University

LITTER CONTROL ACHIEVEMENT PROGRAM SCORE SHEET

CLUB NAME _____ COUNTY _____

ADVISOR'S NAME _____ NUMBER OF CLUB MEMBERS _____

ADDRESS _____ YOUR NAME _____

DATE OF COMPLETION _____

THIS IS YOUR CLUB SCORESHEET IN THE LITTER CONTROL ACHIEVEMENT PROGRAM. WRITE DOWN THE NUMBER OF MEMBERS WHO TAKE PART IN ANY ACTIVITY. ACTIVITIES INCLUDE LEARNING ABOUT LITTER (KNOWING IT), SHARING YOUR KNOWLEDGE WITH OTHERS (TELLING IT) AND HELPING TO PICK-UP, CLEAN-UP AND RECYCLE IN OHIO (DOING IT). AT THE END OF THE SUMMER YOU WILL BE ASKED TO TURN THIS SHEET IN TO YOUR COUNTY AGENT; SO DO A GOOD JOB! TRY TO COMPLETE ACTIVITIES FROM EACH OF THE THREE SECTIONS. YOU ARE TO FILL IN COLUMNS A AND B, YOUR COUNTY AGENT WILL FILL IN THE REST.

KNOWING IT

This section involves you and your club in projects that discover information about litter, litter control or recycling. For help or ideas of possible activities see your club vice-president or your advisor. When your club completes a "Knowing It" activity, record it on this chart.

ACTIVITY	A How many members took part?	B Total number in club?	C % of club participating (A+B×100)	D VALUE TOTAL	E TOTAL (C×D)
View a film, slide set or film strip on litter or recycling at our club meeting				1	
Invited a speaker to our club meeting				1	
Read a book or article on litter or recycling and reported on it				1	
Field trip to a recycling facility				1	
Identified recycling facilities available in our area				1	
Completed a "Walking Tour" and identified littered areas in our community				2	
Completed a community "garbage" fact sheet				3	
Completed the Keep Ohio Beautiful project				4	
Completed an Informal Roadside Litter Survey				5	
Completed a Litter Awareness Survey				5	
Other activities What?					

* Agent will assign a value based on the value of similar activities.

DOING IT

This section deals with activities in which your club was actually cleaning up litter, preventing littering or recycling litter.

ACTIVITY	A Number of members taking part	B Total number in club	C Percent of club Partic- ipating (A-Bx100)	D Value Points	E Number of times	F Sub- total (CxE)	G Total (FxD)
Litter pick-up activities roadside clean-ups.				3			
adopt-a-site				4			
took part in a community or county wide clean-up				2			
daily fairgrounds clean-ups during county fair				4	of days		
Litter containment activities painted trash can				1	of cans		
supplied trash can				2			
Organized and turned in items for recycling.				5	of times		
Other activities What?							

Club Member's Activity Description.

Please explain very briefly what your club did in the Litter Education Program.

Club Member's Signature

Date

Advisor's Comments.. This is for your club advisor to fill in..

In the space below, please tell us how you as an advisor feel about your club and the litter program. Were the members motivated, excited, hard-working, etc. Did they organize and follow through on activities? What were the highlights of the club's litter activities?

Club Advisor's Signature

Date

TELLING IT

In this section, record completed activities in which information about litter, litter control or recycling were shared by your club or members of your club, with others.

	A	B	C	D	E
ACTIVITY	How many members took part?	Total number in club	Percent of club participating (A+B x 100)	VALUE POINTS	TOTAL (CxD)
County fair display				3	
Other community event display				1	
Window or shopping mall display				3	
Chris Clover logo contest				3	
Litter poster contest				3	

	A	B	C	D	E	F	G
	No. INVOLVED	No. IN CLUB	PERCENT INVOLVED (A+Bx100)	VALUE POINT	SUB-TOTAL CxD	NUMBER OF PRESENTATIONS	TOTAL ExF
Litter or recycling talk to my club				2			
Spoke to other 4-H clubs on litter recycling themes				3			
"Keep Ohio Litter Free" Contest				3			
Other public talks on litter or recycling				3			
Made a classroom presentation as a member of my county's litter awareness team				4			
Radio or TV appearance on litter or recycling				5			
Wrote a feature article or photo for my local newspaper or other media				5			
Other activities What?							

The Litter Education Program is administered by the Ohio Cooperative Extension Service, Community and Natural Resource Development, Paul R. Thomas, Assistant Director.

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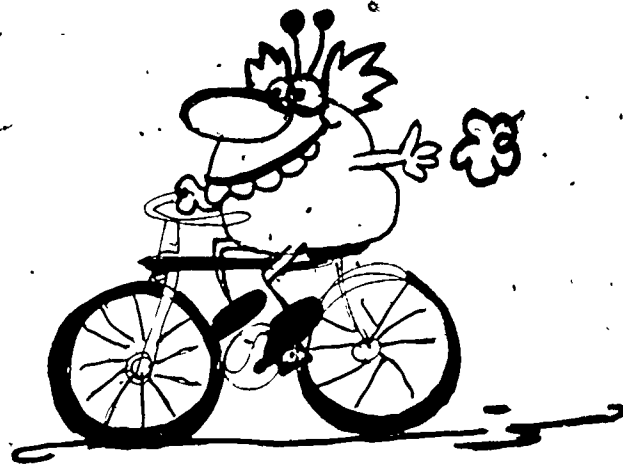
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Discussion Guide & Club Decision Making

Early in the year, your club needs to discuss the litter project. Take about half an hour to an hour and try this:

1. Talk about litter. What it is, what it costs, etc. Use the "Litter" known facts sheet.
2. Discuss what your club could do to learn about litter (knowing it), tell others about the litter problem (telling it), and help clean up your community (doing it). Read the ideas suggested on the record booklet. Ask if anyone has other ideas.
3. If you have older members in your club (high school age), you might have them lead the club in discussion and decision making for possible litter activities or you could have everyone share ideas and choose one in each area (knowing, telling, doing).
4. Decide what to do and in what order. It's better to choose only a few ideas, do them, and if your club has time, then choose a few more.
5. Develop a detailed plan of action for carrying out each project selected. Such plans must include the who, what, when, where, and how of each project undertaken.
6. Carry out your plans.
7. Let others in your community know what your 4-H club has done to help.

On some projects, it might be good to talk to your mayor, township trustees, county commissioners, or county engineer about your ideas. They can let you know what you need to do and help you get started.



* * * * *

* * * * *



OHIO COOPERATIVE EXTENSION SERVICE 4-H, CNRD LITTER EDUCATION PROGRAM

2120 Fyffe Road, Columbus Ohio 43210

Telephone (614) 422-8436

"LITTER" KNOWN FACTS

* Litter/Waste is divided into three categories:

- Recyclable: materials that can be used again;
- Bio-degradable: organic waste (that which reverts to a natural state);
- Solid waste: any other form (liquid, gas, solid) of discarded material.

* American homes and businesses discard over 130 million tons of waste each year.

- That's 260 billion pounds!
- The average American has around 3 pounds of waste discarded each day.
- The average office worker has around 1.6 pounds of trash every day.

* The Federal government spent \$67.7 million picking up litter from federal highways in 1980:

- In Ohio, the same year, \$1,103,931 was spent on litter from state highways.
- In Mass., the same year, \$1,861,000 was spent on litter cleanup.

If every person in Ohio said, "just one pop bottle won't hurt anything..." and dropped one bottle this year:

- There would be 10,797,419 pop bottles;
- There would be 5,398,709.5 pounds of empty bottles (16 oz. size)
* which is equal to 675 full grown elephants;
- \$1,079,741.90 lost in deposits!!!!

If every person in Ohio dropped one gum wrapper on the ground this year, the wrappers would, put end-to-end, be 447.3 miles long!! That's enough to go from Cleveland to Cincinnati and back!!

One tree can make around 118 pounds of newspaper. The Sunday edition of the Columbus Dispatch weighs approximately 2½ pounds and has a circulation of around 340,000.

- That's 765,000 pounds of paper.
- 6,483 trees EVERY SUNDAY!
- Three million tons (6 billion pounds) of newsprint is recycled each year.
- Only 25% of the newspaper in the U.S. is recycled.

A WALKING TOUR

A walking tour is a chance to see firsthand the various types of litter and where they come from. The tour involves going through different parts of your community, noting what litter you see, where you see it and what source left it there.

SOURCES OF LITTER

Pedestrian:	Litter dropped by people walking in or through the area
Motorist:	Litter thrown from cars
Open trucks:	Litter that blows off uncovered trucks
Commercial refuse:	Trash from business waste receptacles
Household refuse:	Litter from improperly covered household trashcans
Loading/unloading:	Litter that blows from docks while trucks are being loaded and unloaded
Construction:	Trash from construction projects

TYPES OF LITTER

Paper:	Any paper products
Cloth, clothing:	Discarded rags, etc.
Meal:	Cans, pop can tabs, etc.
Plastics:	Jugs, pieces of plastic, etc.
Styrofoam:	Glasses, foam boxes, (fast food), etc.
Glass:	Bottles, pieces of glass
Rubber:	Tires, toys
Miscellaneous:	Litter that doesn't fit into any of the above groups

HOW TO DO IT

1. Your club can go in one large group or you can divide into smaller ones. If your club splits into smaller groups, assign each group a section of the community to walk through; if your club stays together, decide where your walk will be.

2. Walk! Look for litter and take notes. Decide where the litter came from (source) and what type of litter it is. Write those ideas down along with where the litter was seen (corner of building, sidewalk, parking lot, gutter, alley, etc.).

3. When everyone is back together again, talk about what everyone saw. Try to figure out if a pattern is there: are there certain types of trash only in certain areas? Is the source different in different areas? etc.

If your club is planning a walking tour, keep these ideas in mind:

1. Dress according to the weather;
2. Take paper and pencils (don't leave them anywhere!);
3. Be prepared to talk about what you will see!



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Making a

GARBAGE FACT SHEET

Your 4-H club may be interested in how much "garbage" your community throws away, how much it costs and where it goes. Here is a list of questions to answer. After they find all the answers, your club members may wish to write an article for your local newspaper on what you have found.

1. What is the population of our community (town, township, city, etc.)? _____

Name of town, township or county _____

How many families are there in the community? (See census data at your local library). _____

Average size of family (population of community divided by number of families). _____

2. How many tons of garbage does our community dispose of each day? _____

each week? _____

(This information may be obtained through the local Department of Public Works, the Department of Sanitation, the County Commissioners' office, Township Trustees, the landfill operator or the collection hauling company). _____

3. Does this amount really show how much garbage our community generates or is some of it burned, dumped in open dumps or taken directly to the landfill by local residents? (Which if any) _____

4. Where is our city or county sanitary landfill? _____

What is the charge to use it? _____

5. How many pounds of waste are disposed of by each person in our community every day? (Multiply tons per day - see question number 2 - by 2000. Divide the total by the number of people in our community - question number 1 -)

How many pounds per person each week?

How many pounds per family every day?

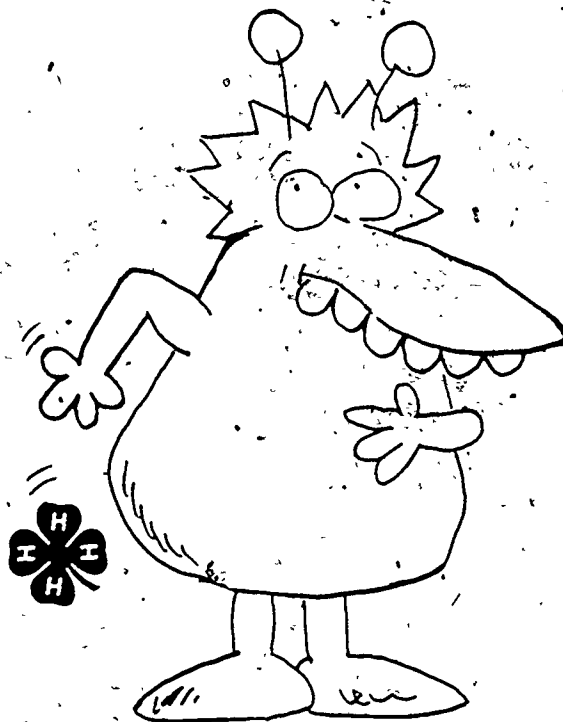
How many pounds per person each week?

How many pounds per person each year?
(Multiply pounds per person per day by 365)

6. How much does it cost to dispose of the waste per ton? (Collection transportation costs plus landfill fee)

Is there a recycling center in your town or community? If not, where is the nearest one?

Who runs it?



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INFORMAL

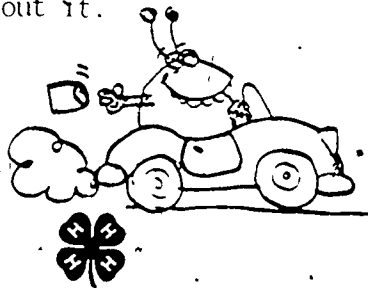
ROADSIDE LITTER SURVEY

This is a way to measure how much litter there is in your community. Follow these basic steps:

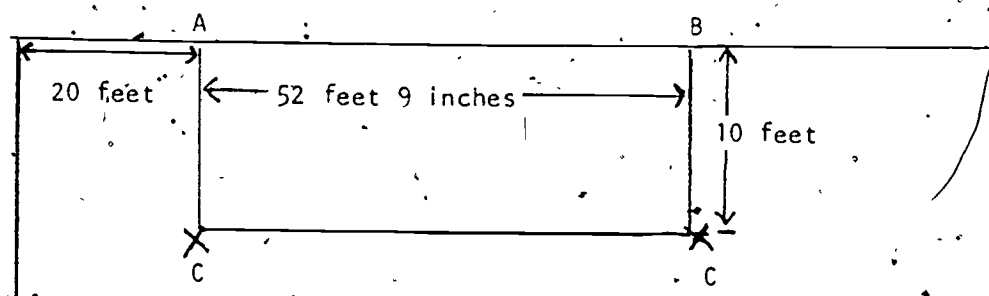
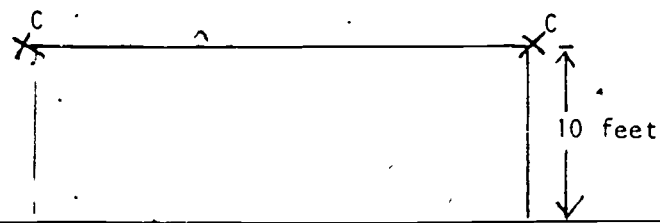
1. Choose the area you want to survey. Is it rural roads only, state highways only, residential community only, business district only or a cross section (combination) of the above?
2. Determine which roads you will survey. You should use at least three - if it's a cross section, do at least two for each of the areas you will be studying. The roads should not be adjacent (next to each other) or intersect near the points of study.
3. Prepare a survey sheet for the area you are going to examine. You can use the attached sheet or make your own.
4. Using a measuring tape or a yardstick, mark off 20 feet from the curb intersection (A). Starting at that mark, measure 52 feet, 9 inches along the road (B). Mark this. Measure 10 feet behind the curb on both sides of the road (C). Between these points is your survey field.
5. Using plastic or metal buckets, gather all the trash within the survey field. DO NOT GO BEYOND THE SURVEY AREA OR ONTO THE ROAD.
6. Separate the trash into separate piles of cans, bottles, paper, fast food containers, etc. Count all the pieces of trash you have gathered and record the information.
7. Do steps 4, 5 and 6 for each area to be surveyed.
8. Total the number of cans, bottles, etc.
9. Divide the total of each column by the number of areas you surveyed. (That should be three or more.)
10. Multiply each answer by 100.

This is an approximate average of how many pieces of trash (litter) there are per mile in the area you surveyed.

Decide with your advisor how to distribute the results. You may wish to send them to your mayor, city councilman, or township trustee. You might even want to prepare a report for your local newspaper! Be sure you state where you took the survey, when you did it, who you are (your 4-H club), why you did it (to see if your community needs to be more aware of litter, to see how severe the litter problem is, etc.), and what can be done about it.



SETTING UP A SURVEY SITE



SURVEY FIELD BETWEEN THE X'S

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INFORMAL ROADSIDE LITTER

SURVEY SHEET

SURVEY AREA	CANS	BOTTLES	PIECES OF PAPER	FAST FOOD bags, cups, holders, etc.	LARGE TRASH boxes, mufflers, tires, etc.	SMALL TRASH pop can tabs, bottle caps, etc.
1						
2						
3						
etc.						
TOTAL Divide by the number of areas surveyed						
TOTAL TIMES 100	X 100	X 100	X 100	X 100	X 100	X 100
AVERAGE PIECES PER MILE						

SAFETY PROCEDURES TO FOLLOW:

1. Contact local officials:

a. Location - depending on where the road is located, this could be the township trustees, county highway department or county engineer, Ohio Department of Highways, mayor or street department, sheriff, local police or the Ohio Highway Patrol. These officials can advise and assist you in planning and carrying out a safe project.

b. Discuss Safety Procedures - do the local officials suggest a car follow each group with hazard lights? Do they have special "crew working" signs to put on each road? Do they have safety vests for your club to wear?

2. Before you are ready, make sure everything is definite and nothing is left to chance.

a. The adult responsible for the activity may want to have each participant, or parent/guardian of a participant, sign a written waiver or release form prior to the project. A letter to the parents or guardians explaining the project is also suggested.

b. The adults responsible for the activity may wish to carry a first aid kit with them for any minor injuries.

3. You may want to consider short-term activity insurance. This is typically available for 10 to 15 cents per person per day. For information see your County 4-H Agent.

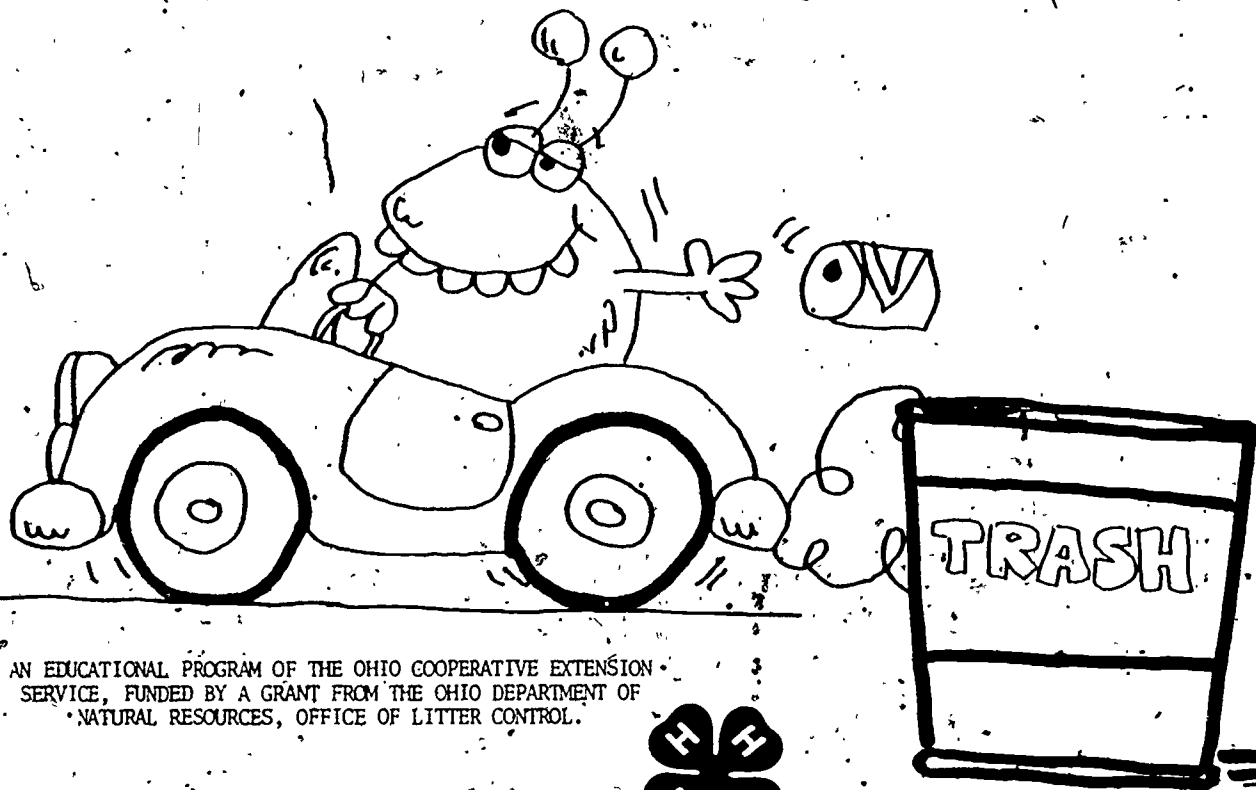
A ROADSIDE LITTER CLEAN-UP CAMPAIGN

PLANNING

1. Decide on the area your club will be cleaning-up and how much time it will take to do it. Plan on three younger club members and one older member, junior leader or advisor (adult), per group. An hour per mile is an average time to do a good job - and one mile per group could be enough! Try to do one concentrated area rather than scattered areas.
4-H groups should avoid pick-up projects along busy highways such as state routes and interstate highways.
2. Set the date, time and meeting place.
Litter pick-up projects should be conducted during light traffic periods.
3. Determine equipment you will need; plastic buckets for everyone are helpful, as are large tough trash bags and pick-up trucks.
4. Contact local officials:
 - a. Location - depending on where the road is located, this could be the township trustees, county highway department or county engineer, Ohio Department of Highways, mayor or street department, sheriff, local police or the Ohio Highway Patrol. These officials can advise and assist you in planning and carrying out a safe project.
 - b. Discuss Safety Procedures - do the local officials suggest a car follow each group with hazard lights? Do they have special "crew working" signs to put on each road? Do they have safety vests for your club to wear?
 - c. Disposal - make sure you know where you can legally and safely dispose of the collected trash. Arrange for passes or payment to the landfill. Recycle what you can.
5. Before you are ready, make sure everything is definite and nothing is left to chance.
 - a. The adult responsible for the activity may want to have each participant, or parent/guardian of a participant sign a written waiver or release form prior to the project (example attached). A letter to the parents or guardians explaining the project is also suggested.
 - b. The adults responsible for the activity may wish to carry a first aid kit with them for any minor injuries.
6. You may want to consider short-term activity insurance. This is typically available for 10 to 15 cents per person per day. For information see your County 4-H Agent.
7. Additional help may be available from the Office of Litter Control, The Ohio Department of Natural Resources, Fountain Square, Columbus, Ohio 43224. Phone: (614) 268-6333. They provide large litter bags and loan safety equipment.

PICK-UP

1. Everyone should meet at an agreed place. All should wear light, bright colors, with long sleeves, long pants, socks and work shoes, boots or heavy-soled shoes. No one should have open toed shoes or sandals. Gloves are recommended (remember - there's a lot of broken glass out there - gloves and shoes will keep you safe!)
2. Agree upon pick-up times and places. If a group finishes quickly, make sure they wait at the pick-up spot.
3. Drop off the clean-up crews (each crew is 3 members, and 1 JL or adult). The crew should be 2 on one side of the road and 2 on the other. Crew members should not cross or walk on the road. One crewperson on each side should carry plastic bags in a pocket. Pick trash up into plastic pails - then put into a garbage bag. When the bag is about full or difficult to move put it by the side of the road for later pick-up and continue on down the road. If a crew comes across a large piece of junk (like a muffler or rubber from a tire), put it beside the road to be picked up later. Never put anything on the road.
4. Next the pick-up crew should go down the road(s) and collect all the bags and large junk into the truck. Partially filled bags can then be combined.
5. After all the crews are finished and picked-up you may want to return to your original meeting place to weigh the trash or take pictures of the club and the trash or whatever your club and advisor(s) want to do to record how much the club did.
6. Have refreshments ready for everyone! You've all worked hard, so it's time to have some fun.



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SAMPLE RELEASE

IN CONSIDERATION OF BEING PERMITTED TO PARTICIPATE IN THE (NAME OF CLUB)
4-H LITTER PICK-UP PROJECT, I HEREBY VOLUNTARILY ASSUME ALL RISKS OF ACCIDENT OR
INJURY AND RELEASE THE OHIO COOPERATIVE EXTENSION SERVICE, ITS EMPLOYEES, AND ALL
(NAME OF CLUB) 4-H ADVISORS FROM ALL LIABILITY FOR PERSONAL INJURY OR DAMAGE
OF ANY KIND SUSTAINED BY ME OR MY CHILD DURING MY PARTICIPATION IN SAID PROJECT. I
ACKNOWLEDGE THE HAZARDS INHERENT IN THIS PROJECT, AND I HAVE BEEN INFORMED OF THE
STEPS TO ALLEVIATE THESE DANGERS (i.e. BROKEN GLASS, TRAFFIC SAFETY PROCEDURES AND
INCLUDING WEARING GLOVES AND SHOES).

PARTICIPANT _____

DATE _____

PARENT/GUARDIAN _____

(If participant is younger than 18 years)

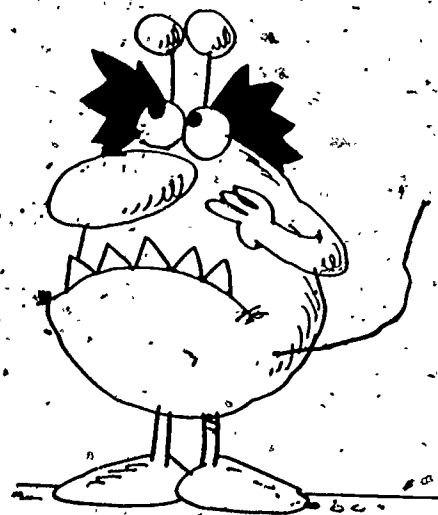
DATE _____

HOW TO ORGANIZE A PAPER DRIVE

Newspapers or Cardboard

Newspaper and cardboard are the easiest paper products to recycle because they are easily recognized, separated, and collected. Markets for their recycled products are usually available.

1. Establish a market.
 - a. Find a dealer(s), and requirements for delivery. Should paper be tied, bagged, etc.
 - b. Compare prices.
 - c. Make plans for transportation.
2. Be sure you have enough club members to help in the Drive.
3. Decide how large your collection area will be.
4. Choose the right collection method:
 - a. Curbside or home pick-up in the neighborhood.
 - b. Central site - people drop off the papers.
5. Assign collection teams and equipment.
 - a. Pickup where? (Who does what part of town)
 - b. Loading and unloading.
6. Publicity.
 - a. Newspapers, handbills
 - b. Radio - community bulletin boards.
 - c. Give one month notice to the public.
7. Keep the papers clean, dry, and out of direct sunlight. Do not mix different kinds of paper or trash with your collected newspaper.



High Grade Office Paper

Office paper can be recycled into a better quality paper than can newspapers, magazines and cardboard. To recycle this kind of paper:

1. Follow steps 1 through 3 on opposite side for paper.
2. Find local offices where management is willing to cooperate.
3. Have employees place recyclables in one container and trash in another. Provide a list of acceptable materials for recycling to each employee.
4. Decide with management when you will collect the paper.
5. Keep the paper clear of contaminants (see the "You Cannot" recycle list below).
6. Publicity follow-up. Be sure to include names and pictures of companies that cooperate.

When collecting high grade office paper for recycling:

You can include:

White typing paper
White writing paper
Copy paper (mimeograph)
White scratch paper
Tab cards
Index cards
Computer printout paper

You cannot include:

Envelopes
Carbon paper
Blueprints
Film, photos
Tape, glue
Metal objects (staples ok)
Newspapers
Cardboard, Magazines
Colored paper
File folders
Garbage
Books

Be sure to check with your dealer (buyer) first on what can be included.



4-H Pilot Litter Education Program Evaluation

Since this is a pilot program, we need to know how the activities and scoresheet can be changed to better help you and other 4-H clubs.

At the end of the 4-H project year, fill this out, then fold, staple, stamp and mail it.

1. List the activities your club did complete: _____

2. What did your club like about the program? _____

3. What did your club not like about the program? _____

4. Is there a better way to set up the scoresheet? _____

5. What are improvements your club would like to see in the program? (Be specific; include wording, examples and ideas) _____

6. Can you suggest additional activities or activity guides? _____

7. In what county is your club? _____
8. Other comments: _____

